

**GOVERNMENT OF INDIA  
CIVIL AVIATION  
LOK SABHA**

UNSTARRED QUESTION NO:4475  
ANSWERED ON:22.12.2005  
MONITORING OF AIR SPACE WITH RADARS  
Adhalrao Patil Shri Shivaji

**Will the Minister of CIVIL AVIATION be pleased to state:**

- (a) whether the Government has taken steps to modernize the equipments for making the monitoring of the Indian air space more effective, particularly in view of the increasing pressure on air traffic;
- (b) if so, the details thereof;
- (c) whether the radars which are installed at various airports in the country are not of latest standard; and
- (d) if so, the steps taken by the Government to install sophisticated radars at all airports in the country?

**Answer**

MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF CIVIL AVIATION ( SHRI PRAFUL PATEL )

(a) Yes, Sir.

(b) Various steps taken by Airports Authority of India (AAI) inter-alia include introduction of Reduced Vertical Separation Minima (RVSM) in Indian airspace, installation of Flight Data Processing System (FDPS) at Nagpur, Trivandrum, Ahmedabad & Varanasi airports, Automatic Dependent system (ADS) with Controller Pilot Data Link Communication (CPDLC) at Kolkata, Chennai, Delhi & Mumbai airports, Flight Information Display System (FIDS) at 16 airports, Advanced Surface Movement Guidance & Control System (ASMGCS) at Delhi airport, Dedicated Satellite Communication Network (DSCN) to connect 80 airports, radars at 12 sites for radar surveillance, radar networking, introduction of Satellite Based Augmentation system (SBAS) for high level of accuracy, availability and reliability. Besides, AAI has also initiated action for replacement of old equipment, high frequency transmitters, Non-Directional Beacons, Instrument Landing Systems, Distance Measuring Equipment, Automatic Message Switching Systems, VOR/DVOR etc. with the state-of-the-art equipment.

(c) No, Sir.

(d) Does not arise.